

What is claimed:

1. A toothbrush comprising:

5 a handle;

a toothbrush head distal to the handle; and

10 a multiplicity of first type bristles, each of said
bristles having a diameter ranging from about 0.25 mm to
about 0.60 mm and being individually embedded in said
toothbrush head; said bristles being mutually spaced
15 apart from one another by a distance ranging from about
0.5 times to about 10 times the diameter of the
bristles.

2. A toothbrush according to Claim 1 further
comprising at least one dense tuft of bristles.

20 3. A toothbrush according to Claim 1 wherein:
the first type bristles comprise at least one bristle
having a diameter from about 0.35 mm to about 0.60 mm
and at least one bristle having a diameter of from about
0.25 mm to about 0.35 mm.

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4. A toothbrush according to Claim 3 wherein the toothbrush head further comprises sections wherein:

the bristles are arranged such that at least one section of the toothbrush head contains bristles having diameters from about 0.35 mm to about 0.60 mm, while at least one section of the toothbrush head contains first type bristles having diameters ranging from about 0.25 mm to about 0.35 mm.

5. A toothbrush comprising:

a handle;

a toothbrush head distal to the handle;

at least one individually embedded second type bristle having a diameter of from about 0.08 mm to about 0.35 mm and a free length of from about 7 mm to about 16 mm; and

at least one third type bristle having a diameter of from about 0.15 mm to about 0.40 mm and a free length of from about 5 mm to about 14 mm; wherein the trim difference between the second type bristle and the third type bristle ranges from about 0.5 mm to about 3 mm.

6. A toothbrush according to Claim 5 further comprising at least one section wherein:

the free lengths of the bristles within at least one section of the toothbrush head are varied such as to create a sawtooth cut profile.

7. A toothbrush according to Claim 5 further comprising at least one section wherein:

the free lengths of the bristles within at least one section of the toothbrush head are varied such as to create a wave cut profile.

8. A toothbrush according to Claim 5 further comprising at least one section wherein:

the free lengths of the bristles within at least one section of the toothbrush head are varied such as to create an arc cut profile.

9. A toothbrush according to Claim 5 further comprising first sections and second sections wherein:

the first sections comprise second type bristles and the second sections comprise third type bristles and each of the first and second sections comprises from 1 to 7 rows of bristles.

10. The toothbrush according to Claim 9 wherein:

the first sections are alternately spaced with the
second sections.

11. A toothbrush according to Claim 5 wherein:

the second and third type bristles are arranged to
create an alternating wave pattern.

12. A toothbrush according to Claim 5 wherein:

the second and third type bristles are arranged to
create a pattern of a circle of second type bristles
surrounding the third type bristles along a row.

13. A toothbrush according to Claim 5 wherein:

the second and third type bristles are arranged to
create a pattern of a hexagon of second type bristles
surrounding a third type bristle.

14. A toothbrush according to Claim 5 further comprising:

at least one fourth type bristle having a diameter of
from about 0.15 mm to about 1.0 mm and a free length of
from about 9 mm to about 15 mm arranged about the
periphery of the toothbrush head.

15. A toothbrush according to Claim 14 wherein:

the toothbrush contains a plurality of fourth type
bristles arranged along the periphery of the toothbrush
head; and

the height of the fourth type bristles alternates along
the periphery of the toothbrush head to create an arc
shaped form.

16. A toothbrush according to Claim 14 wherein:

the toothbrush contains a plurality of fourth type
bristles arranged along the periphery of the toothbrush
head; and

the height of the fourth type bristles alternates along
the periphery of the toothbrush head to create a
sawtooth shaped form.

17. A toothbrush according to Claim 14 wherein:

the toothbrush contains a plurality of fourth type
bristles arranged along the periphery of the toothbrush
head; and

the height of the fourth type bristles alternates along
the periphery of the toothbrush head to create a wave
shaped form.

18. A toothbrush according to Claim 5 wherein:

the toothbrush contains a multiplicity of bristle
diameters within the toothbrush head.

19. A toothbrush according to Claim 5 wherein:

the toothbrush contains a multiplicity of bristle
spacing within the toothbrush head.

20. A toothbrush according to Claim 5 further
comprising:

at least one dense tuft of bristles.

21. A toothbrush comprising:

a handle;

a toothbrush head distal to the handle, the toothbrush head comprising a periphery and a distal end; and

bristles which are individually embedded in the toothbrush head and mutually spaced apart from one another by a distance from about 0.5 times to about 10 times the diameter of the bristles;

wherein the bristles comprise second type bristles having a diameter of from about 0.08 mm to about 0.35 mm and a free length of from about 7 mm to about 16 mm; third type bristles having a diameter of from about 0.15 mm to about 0.40 mm and a free length of from about 5 mm to 14 mm; fourth type bristles having a diameter of from about 0.15 mm to about 1.0 mm and a free length of from about 9 mm to about 15 mm arranged along the periphery of the toothbrush head; and a dense tuft of bristles at the distal end.

22. A toothbrush comprising:

a handle;

a toothbrush head distal to the handle;

a multiplicity of first type bristles, each of said bristles having a diameter ranging from about 0.25 mm to about 0.60 mm and being individually embedded in said toothbrush head; said bristles being mutually spaced apart from one another by a distance ranging from about 0.5 times to about 10 times the diameter of the bristles; and

at least one dense tuft of bristles.

23. A toothbrush according to Claim 22 wherein:

the first type bristles comprise at least one bristle having a diameter from about 0.35 mm to about 0.60 mm and at least one bristle having a diameter of from about 0.25 mm to about 0.35 mm.

24. A toothbrush according to Claim 22 wherein the dense tuft of bristles has a shape selected from the group consisting of circle, square, oval, triangle, elongated rectangle, polygonal, half-moon, horseshoe, bar, stars, arc and combinations thereof.

25. The toothbrush according to Claim 24 further comprising a distal dense tuft of bristles.

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